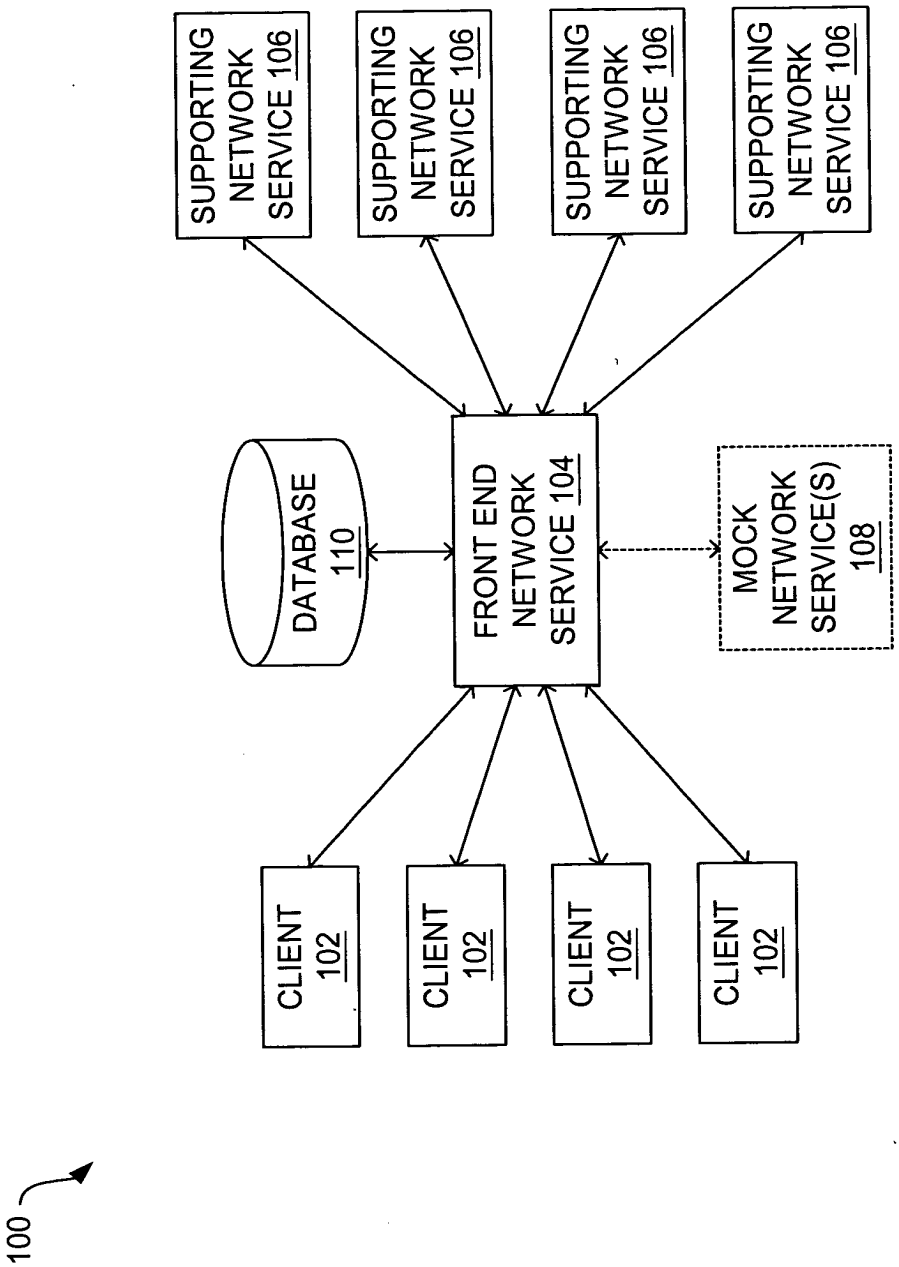
SUPPORTING NETWORK SERVICE 106
SUPPORTING NETWORK SERVICE 106
SUPPORTING NETWORK SERVICE 106
SUPPORTING NETWORK SERVICE 106
DATABASE 110
FRONT END NETWORK SERVICE 104
MOCK NETWORK SERVICE(S) 108
CLIENT 102
CLIENT 102
CLIENT 102
CLIENT 102
100

FIG. 1

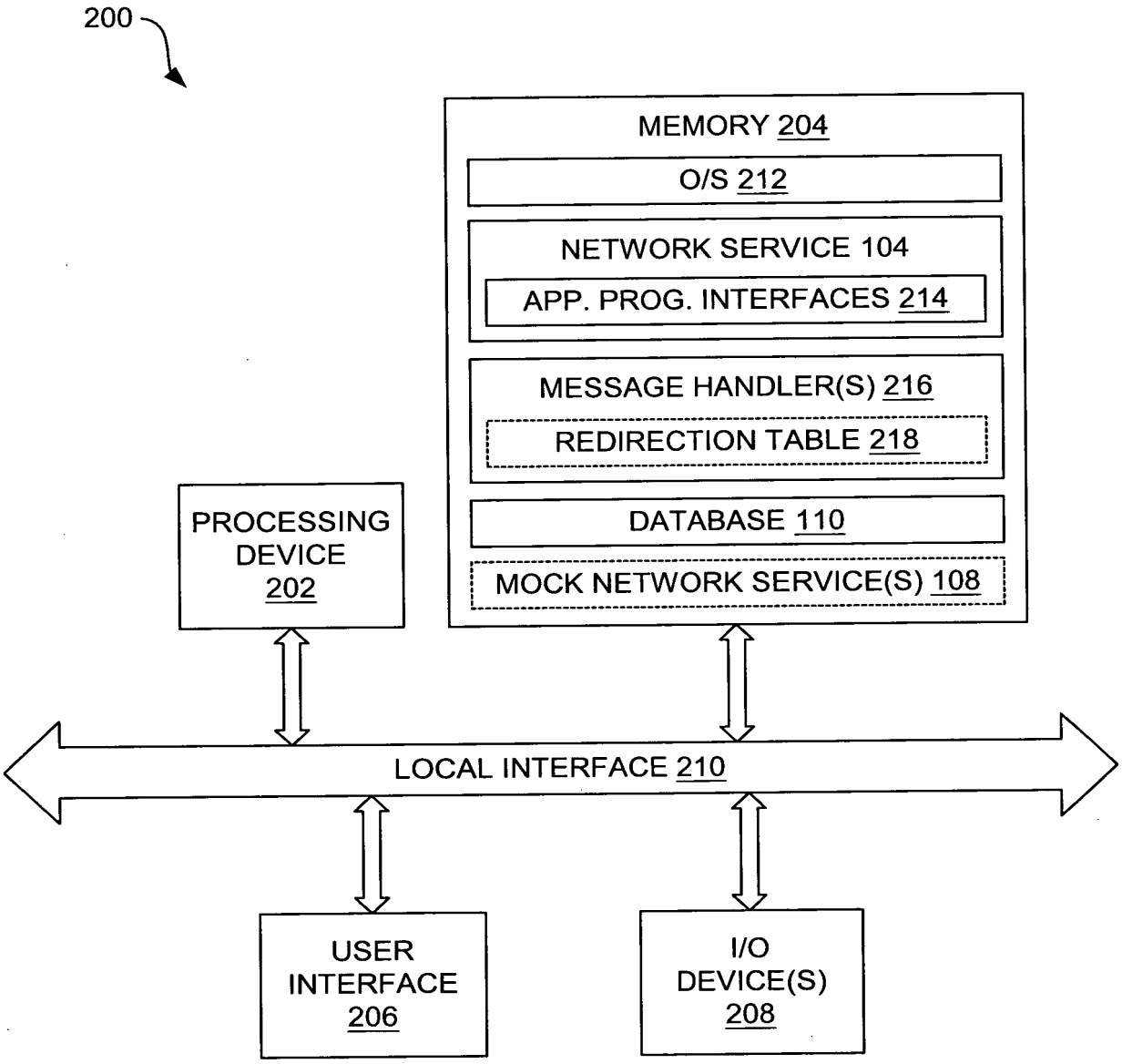
200
MEMORY 204
O/S 212
NETWORK SERVICE 104
APP. PROG. INTERFACES 214
MESSAGE HANDLER(S) 216
REDIRECTION TABLE 218
DATABASE 110
MOCK NETWORK SERVICE(S) 108
PROCESSING DEVICE 202
LOCAL INTERFACE 210
USER INTERFACE 206
I/O DEVICE(S) 208

FIG. 2

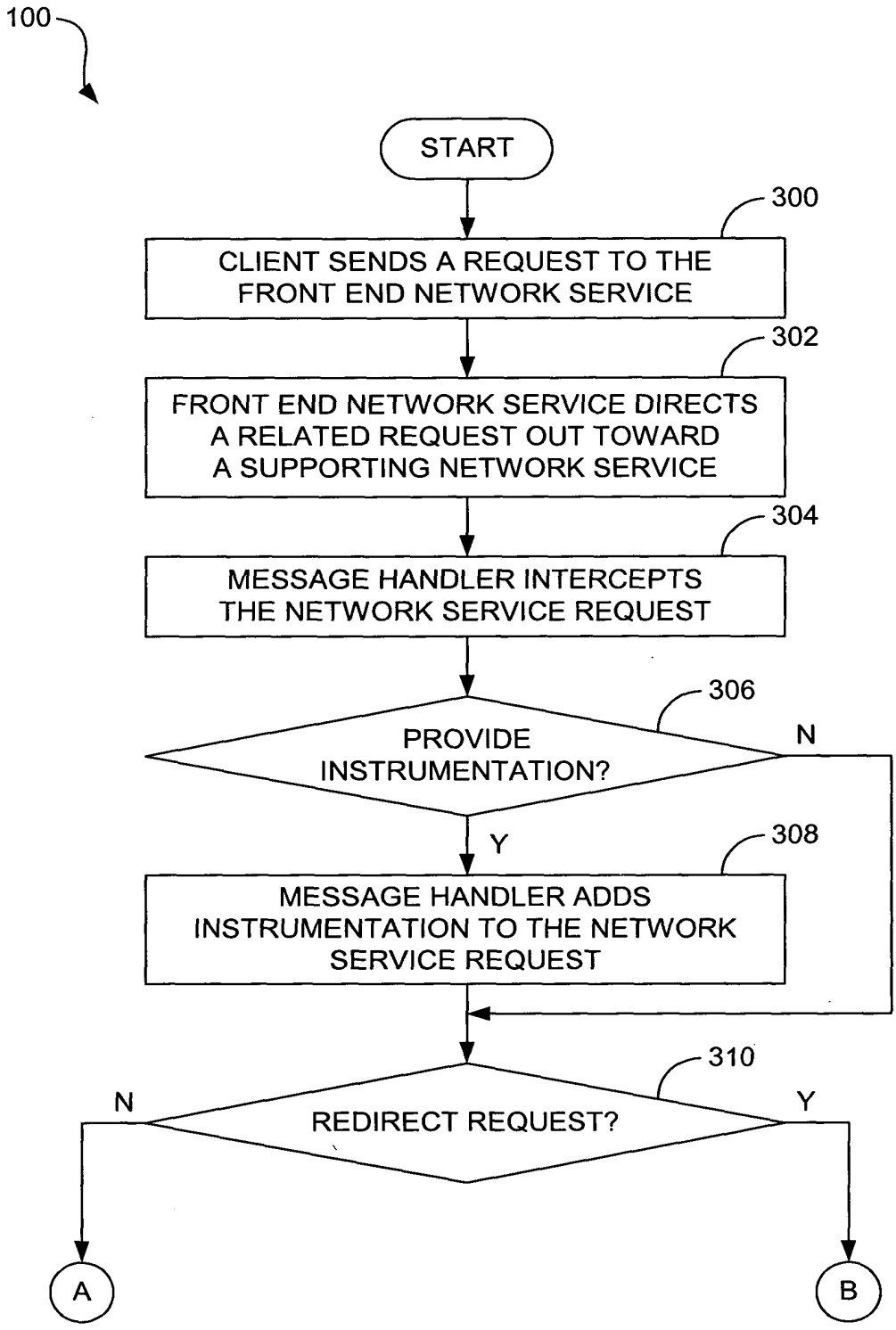
100
START
300
CLIENT SENDS A REQUEST TO THE FRONT END NETWORK SERVICE
302
FRONT END NETWORK SERVICE DIRECTS A RELATED REQUEST OUT TOWARD A SUPPORTING NETWORK SERVICE
304
MESSAGE HANDLER INTERCEPTS THE NETWORK SERVICE REQUEST
306
PROVIDE INSTRUMENTATION?
N
Y
308
MESSAGE HANDLER ADDS INSTRUMENTATION TO THE NETWORK SERVICE REQUEST
310
REDIRECT REQUEST?
N
Y
A
B

FIG. 3A

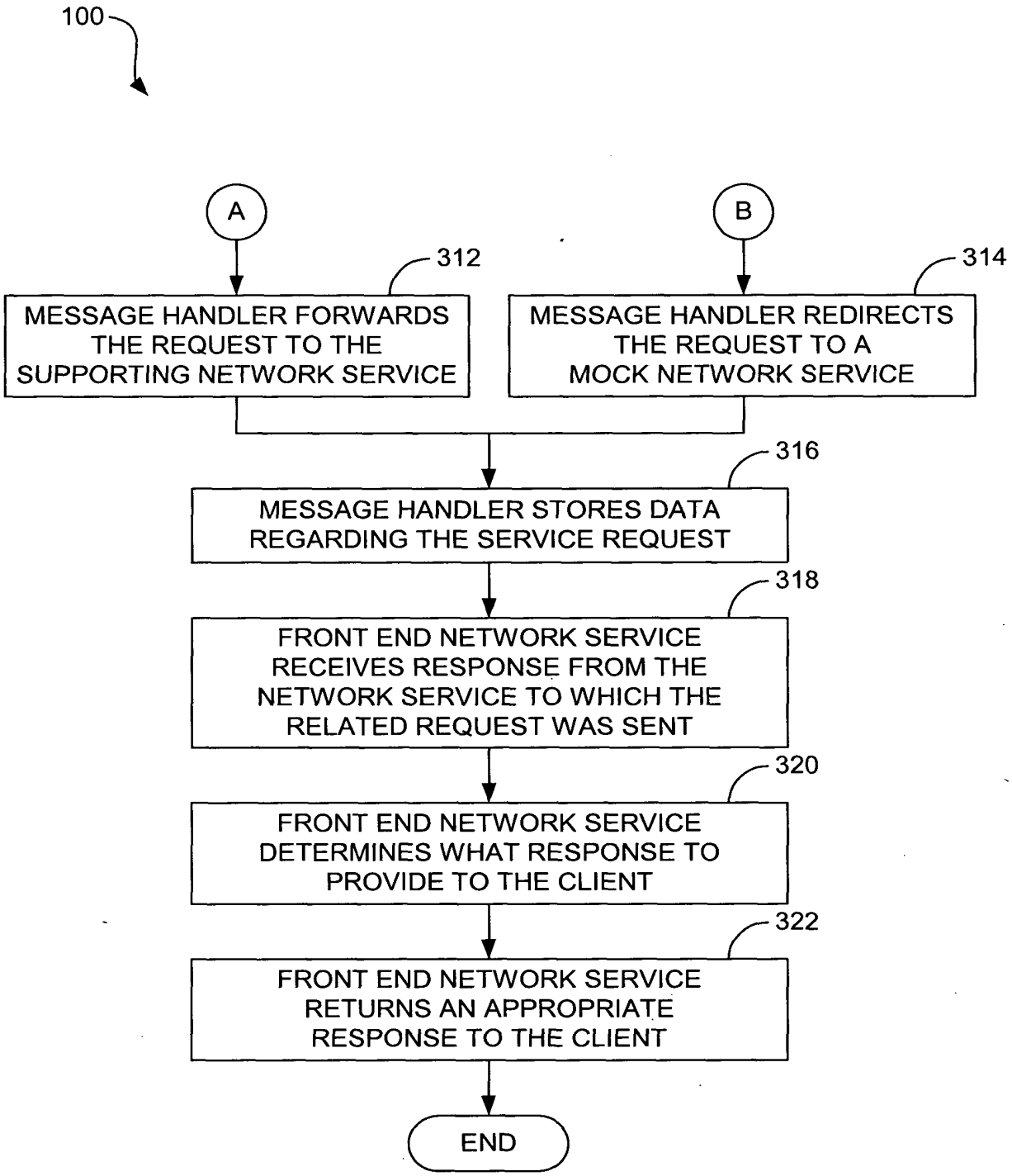
100
A
B
312
314
MESSAGE HANDLER FORWARDS THE REQUEST TO THE SUPPORTING NETWORK SERVICE
MESSAGE HANDLER REDIRECTS THE REQUEST TO A MOCK NETWORK SERVICE
316
MESSAGE HANDLER STORES DATA REGARDING THE SERVICE REQUEST
318
FRONT END NETWORK SERVICE RECEIVES RESPONSE FROM THE NETWORK SERVICE TO WHICH THE RELATED REQUEST WAS SENT
320
FRONT END NETWORK SERVICE DETERMINES WHAT RESPONSE TO PROVIDE TO THE CLIENT
322
FRONT END NETWORK SERVICE RETURNS AN APPROPRIATE RESPONSE TO THE CLIENT
END

FIG. 3B

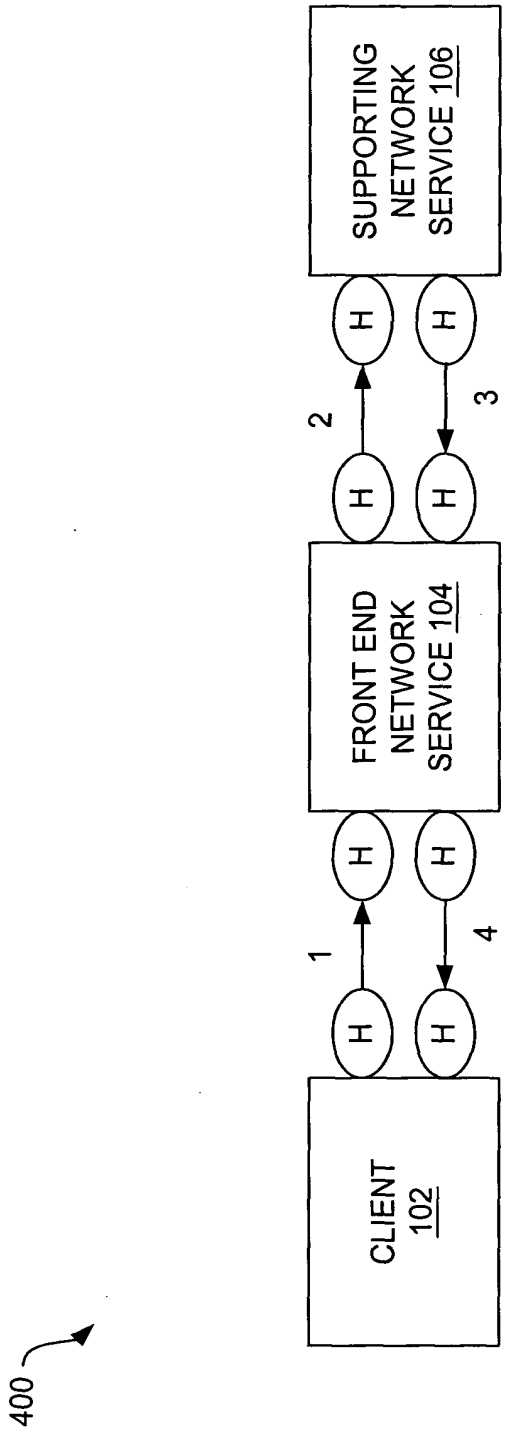
400
CLIENT 102
FRONT END NETWORK SERVICE 104
SUPPORTING NETWORK SERVICE 106
H
1
2
3
4

FIG. 4

500

MESSAGE NO.	SESSION ID	MSG. TYPE	SOURCE	DESTINATION	TIME SENT	TIME REC'D
1	052	REQUEST	CLIENT A	SERVICE A	12:00:00	12:00:01
2	052	REQUEST	SERVICE A	SERVICE B	12:00:05	12:00:06
3	052	RESPONSE	SERVICE B	SERVICE A	12:00:10	12:00:11
4	052	RESPONSE	SERVICE A	CLIENT A	12:00:15	12:00:16

FIG. 5

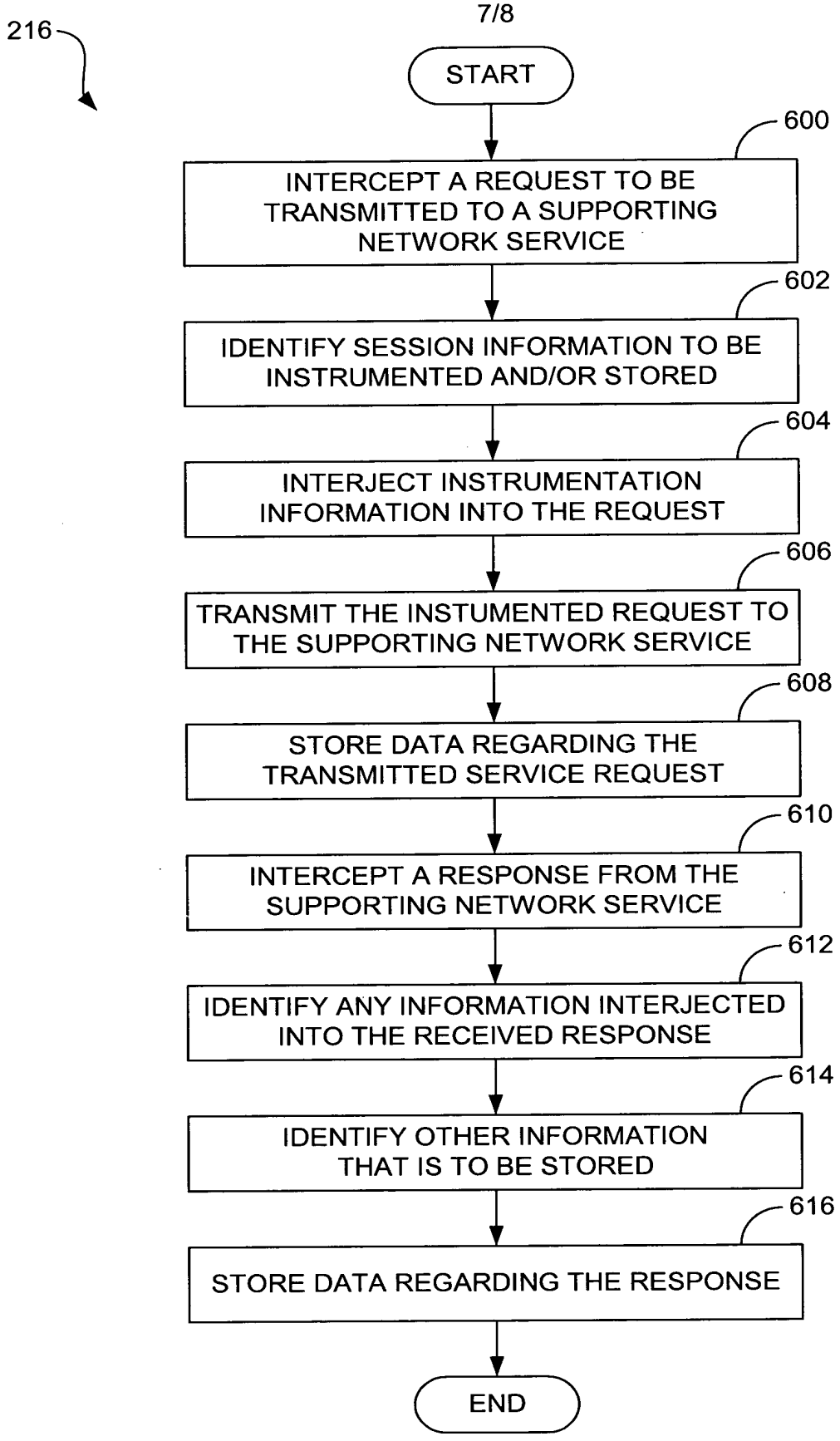
216
START
600
INTERCEPT A REQUEST TO BE TRANSMITTED TO A SUPPORTING NETWORK SERVICE
602
IDENTIFY SESSION INFORMATION TO BE INSTRUMENTED AND/OR STORED
604
INTERJECT INSTRUMENTATION INFORMATION INTO THE REQUEST
606
TRANSMIT THE INSTUMENTED REQUEST TO THE SUPPORTING NETWORK SERVICE
608
STORE DATA REGARDING THE TRANSMITTED SERVICE REQUEST
610
INTERCEPT A RESPONSE FROM THE SUPPORTING NETWORK SERVICE
612
IDENTIFY ANY INFORMATION INTERJECTED INTO THE RECEIVED RESPONSE
614
IDENTIFY OTHER INFORMATION THAT IS TO BE STORED
616
STORE DATA REGARDING THE RESPONSE
END

FIG. 6

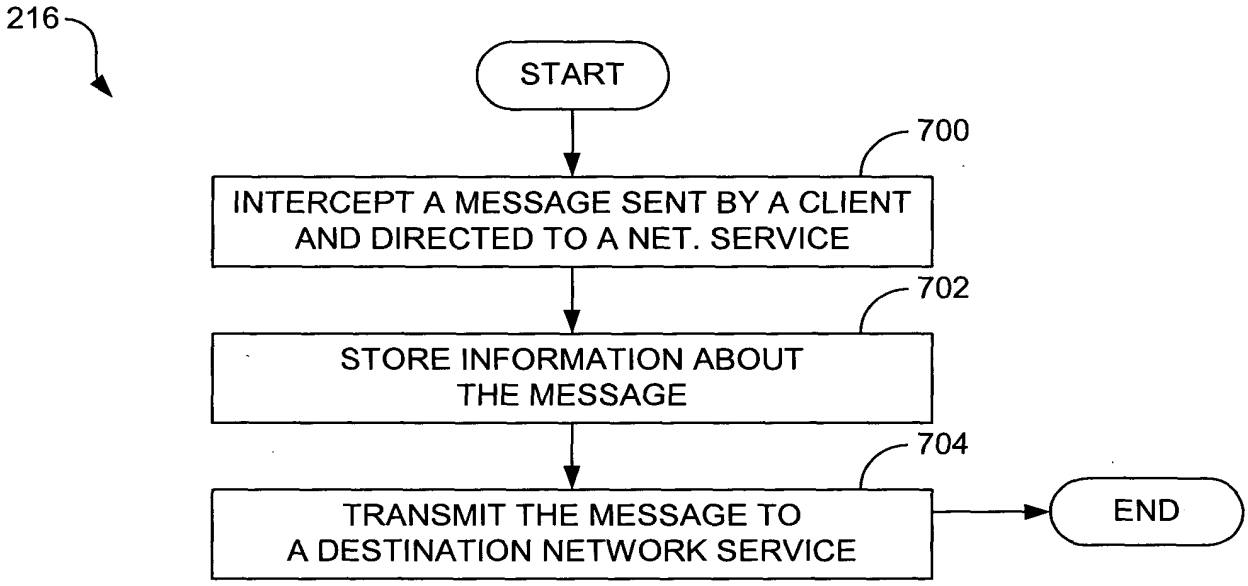
216
START
700
INTERCEPT A MESSAGE SENT BY A CLIENT AND DIRECTED TO A NET. SERVICE
702
STORE INFORMATION ABOUT THE MESSAGE
704
TRANSMIT THE MESSAGE TO A DESTINATION NETWORK SERVICE
END

FIG. 7

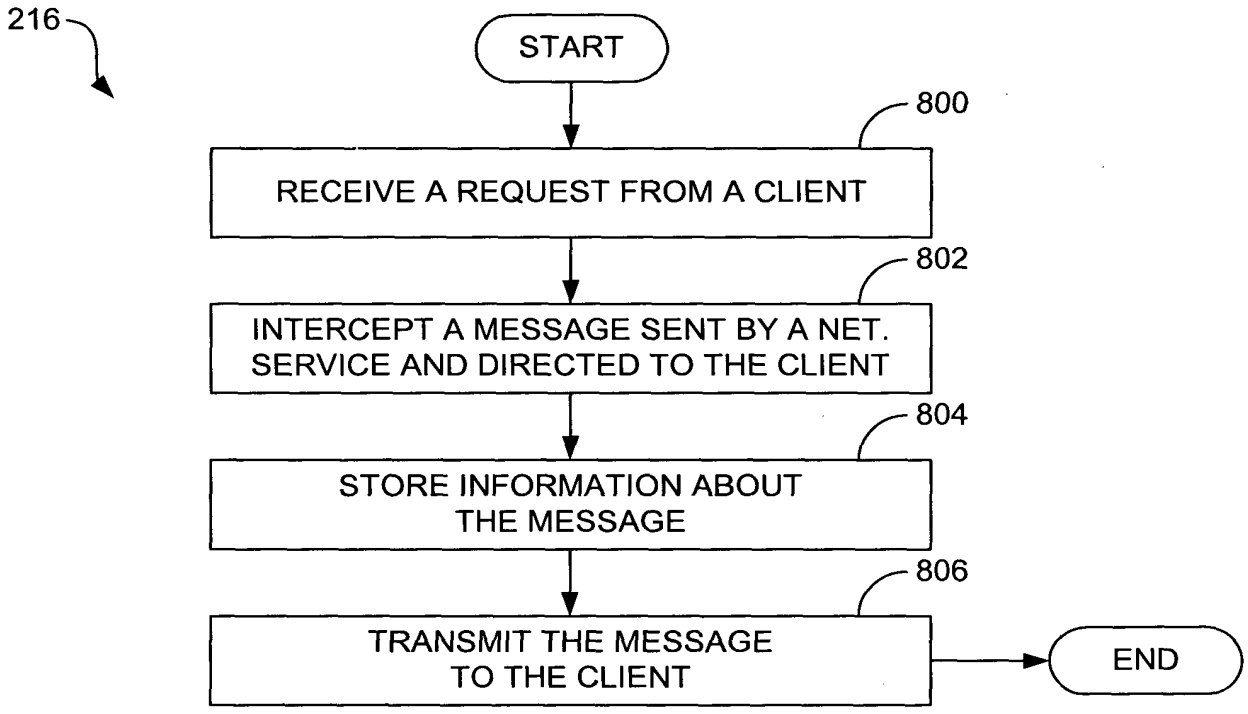
216
START
800
RECEIVE A REQUEST FROM A CLIENT
802
INTERCEPT A MESSAGE SENT BY A NET. SERVICE AND DIRECTED TO THE CLIENT
804
STORE INFORMATION ABOUT THE MESSAGE
806
TRANSMIT THE MESSAGE TO THE CLIENT
END

FIG. 8